

Egg Toss Math

Objectives

Students practice counting by playing a game with an egg carton and ping pong balls. Students estimate and measure distances in a game of “Egg Toss” with real boiled eggs or alternative. Students use plastic eggs as manipulatives for sorting, addition and subtraction and to estimate and measure volume.

Materials

egg cartons
ping pong balls
straw or large paper bags
to serve as “nests.”
index cards
large paper clips

Procedure

1. Divide your class into groups of four or five.
 - Provide each group with an egg carton.
 - Number the sections with a marking pen. Use the numbers one through 12 or any numbers you wish to teach.
 - Provide a ping pong ball for each group.
 - One student from each group will toss the ping pong ball into any section of the egg carton.
 - The other members of the group will call out the number of the section in which the ball lands.
 - Students will take turns tossing within their groups.
 - Students will use tally marks to keep track of the numbers. Students may also use unifix cubes to show each number as they land on them.
 - Students will create a graph to show how many times the ball landed on each number.
2. Pair up and have an egg toss outdoors.
 - Hard-cook eggs ahead of time, or use alternative to avoid the mess.
 - Cut holes in large trash bags for heads and armholes for students to wear.
 - The class will formulate strategies for measuring the distance of the winning egg toss, or each team will formulate a strategy for measuring the distance of its own egg toss.
 - Students will create a graph showing the results and post it in the classroom.
3. Place small objects inside plastic eggs.
 - Students will count and record the number of objects on an answer sheet.
4. Hard-boil 12 eggs.
 - Number the eggs with a marking pen.
 - Students will place the eggs in numerical order in an egg carton.

Oklahoma Academic Standards

PREKINDERGARTEN

Number & Operations::
1.1,2; 2.2,3,4. Algebra: 1.1,2.
Geometry & Measurement:
2.3. Data & Probability:
1.1,2

KINDERGARTEN

Number & Operations: 1.1,2;
2.1. Algebra: 1.1. Geometry
& Measurement: 1.2; 2.3,4.
Data & Probability: 1.1,2,3

GRADE 1

Number & Operations: 1.4;
2.1,3. Measurement: 2.5.
Data & Probability: 1.1,2,3

GRADE 2

Number & Operations: 1.1.
2.2,3,5. Algebra: 2.1,2.

5. Bring plastic eggs and an assortment of containers in different sizes to class.
 - Students will estimate how many eggs it will take to fill one of the containers.
 - Students will fill the container and count the eggs.
 - Students will estimate how many eggs it will take to fill a different-sized container, based on how many it took to fill the first container.
 - Repeat with the remaining containers.
6. Bring plastic eggs to class.
 - Students will sort the eggs by color.
 - Students will graph the colors.
7. Write number words in the sections of an egg carton and the corresponding numerals on plastic eggs.
 - Students will place the plastic eggs in the matching egg carton section.
8. Make up stories, using plastic eggs as manipulatives, to practice addition and subtraction.